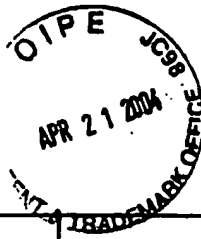


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PTO/SB/08A (08-00)

Substitute for form 1449A/PTO		Complete if Known			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/759,028		
		Filing Date	January 20, 2004		
		First Named Inventor	Erik J. SHAHOIAN et al.		
		Group Art Unit	Unassigned		
		Examiner Name	Unassigned		
Sheet	1	of	4	Attorney Docket Number	IMMR-066/02US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code ² (if known)		
J-L	A1	6,468,158		Ootori et al.	10-22-2002
	A2	6,424,333	B1	Tremblay et al.	07-23-2002
	A3	6,422,941	B1	Thorner et al.	07-23-2002
	A4	6,275,213		Tremblay et al.	08-14-2001
	A5	6,111,577		Zilles et al.	08-29-2000
	A6	6,088,017		Tremblay et al.	07-11-2000
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	A8	5,766,016		Sinclair et al.	06-16-1998
	A9	5,650,704		Pratt et al.	07-22-1997
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	A17	5,240,417		Smithson et al.	08-31-1993
	A18	5,212,473		Louis	05-18-1993
	A19	5,186,695		Mangseth et al.	02-16-1993
	A20	5,078,152		Bond et al.	01-07-1992
	A21	5,038,089		Szakaly	08-06-1991
	A22	5,035,242		Franklin et al.	07-30-1991
	A23	5,022,407		Horch et al.	06-11-1991
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	A26	4,930,770		Baker	06-05-1990
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¹ Unique citation designation number.

² See attached Kinds of U.S. Patent Documents.

Examiner Signature	<i>Dean [Signature]</i>	Date Considered	9/28/2006
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				Application Number	10/759,028
				Filing Date	January 20, 2004
				First Named Inventor	Erik J. SHAHOIAN et al.
				Group Art Unit	Unassigned
				Examiner Name	Unassigned
Sheet	2	of	4	Attorney Docket Number	IMMR-066/02US

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J.L.	A41	3,497,668		Hirsch	02/24/1970
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J.L.	A44	2,972,140		Hirsch	02-14-1961

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		Office ¹	Number ²	Kind Code ³ (if known)			
J.L.	B1	JP	H4-8381		Taito Corporation	01-13-1992	<input checked="" type="checkbox"/>
	B2	JP	H2-185278		Taito Corporation	07-19-1990	<input checked="" type="checkbox"/>
	B3	JP	H7-24147		Sega Corporation	01-27-1995	<input checked="" type="checkbox"/>
	B4	JP	H5-192449		Taito Corporation	08-03-1993	<input checked="" type="checkbox"/>
J.L.	B5		0 349 086		Stork Kwant B.V.	01-03-1990	

OTHER - NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²	
J.L.	C1	AUKSTAKALNIS et al., "Silicon Mirage: The Art and Science of Virtual Reality," ISBN 0-938151-82-7, pp. 129-180, 1992.		
	C2	BLISS, "Optical-to-Tactile Image Conversion for the Blind," IEEE Transactions on Man-Machine Systems, Vol. MMS-11, No. 1, pp. 58-65, March 1970.		
	C3	CALDER, "Design of A Force-Feedback Touch-Introducing Actuator For Teleoperator Robot Control," Bachelor of Science Thesis, MIT, June 23, 1983.		
	C4	"Cyberman Technical Specification," Logitech Cyberman SWIFT Supplement, 4/5/1994.		
	C5	EBERHARDT et al., "Inducing Dynamic Haptic Perception by The Hand: System Description and Some Results," DSC-Vol. 55-1, Dynamic Systems and Control: Volume 1, ASME 1994, pp. 345-351.		
	C6	GOBEL et al., "Tactile Feedback Applied to Computer Mice," International Journal of Human-Computer Interaction, Vol. 7, No. 1, pp. 1-24, 1995.		
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¹ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

² For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

³ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

⁴ Applicant is to place a check mark here if English language Translation is attached.

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		Application Number	10/759,028		
		Filing Date	January 20, 2004		
		First Named Inventor	Erik J. SHAHOIAN et al.		
		Group Art Unit	Unassigned		
Examiner Name	Unassigned				
Sheet	3	of	4	Attorney Docket Number	IMMR-066/02US

OTHER - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
J.L.	C13	PIMENTEL et al., "Virtual Reality: through the new looking glass," 2 nd Edition; McGraw-Hill, ISBN 0-07-050167-X, pp. 41-202, 1994.	
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	C16	"Technical Manual Overhaul Instructions With Parts Breakdown, Coaxial Control Shaker Part No. C-25502," Safe Flight Instrument Corporation, Revised 15 July 1980 (23 pages).	
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	C18	Baigrie, "Electric Control Loading - A Low Cost, High Performance Alternative," <i>Proceedings of Interservice/Industry Training Systems Conference</i> , pp. 247-254, November 6-8, 1990	
	C19	Iwata, "Pen-based Haptic Virtual Environment," 0-7803-1363-1/93 IEEE, pp. 287-292, 1993	
	C20	Russo, "The Design and Implementation of a Three Degree of Freedom Force Output Joystick," <i>MIT Libraries Archives</i> pp. 1-131, May 1990, archived 8/14/90	
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	C24	Snow et al., "Model-X Force-Reflecting-Hand-Controller," NT Control No. NPO-17851; JPL Case No. 7348, pp. 1-4 with 45 pages of attachments, 06/15/1989	
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Examiner Signature	<i>Sam Keyser</i>	Date Considered	9/28/2006
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		Application Number	10/759,028		
		Filing Date	January 20, 2004		
		First Named Inventor	Erik J. SHAHOIAN et al.		
		Group Art Unit	Unassigned		
		Examiner Name	Unassigned		
Sheet	4	of	4	Attorney Docket Number	IMMR-066/02US

OTHER - NON PATENT LITERATURE DOCUMENTS			
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J.L.	C37	McAffee et al., "Teleoperator Subsystem/Telerobot Demonstrator: Force Reflecting Hand Controller Equipment Manual," JPL 1988, JPL D-5172	
	C38	Minsky, "Computational Haptics: The Sandpaper System for Synthesizing Texture for a Force-Feedback Display," Ph.D. Dissertation, MIT, June 1995, archived 7/6/95	
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	C48	Ouhyoung et al., "A Low-Cost Force Feedback Joystick and Its Use in PC Video Games," IEEE Transactions on Consumer Electronics, Vol. 41, No. 3, August 1995	
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¹ Unique citation designation number.

² Applicant is to place a check mark here if English language Translation attached.

Examiner Signature	<i>Don Agnew</i>	Date Considered	9/28/2006
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 1 of 1**Complete if Known**

Application Number	10/759,028
Filing Date	January 20, 2004
First Named Inventor	Erik J. Shahoian
Art Unit	3711
Examiner Name	Unassigned
Attorney Docket Number	IMMR066/02US

U.S. PATENT DOCUMENTS

Examiner	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
J-L		6,160,489	12/12/2000	Perry et al.	
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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
J-L		WIKER, "Teletouch Display Development: Phase 1 Report," <i>Technical Report 1230</i> , Naval Ocean Systems Center, San Diego, July 1988.
		YAMAKITA et al., "Tele-Virtual Reality of Dynamic Mechanical Model," <i>Proceedings of the 1992 IEEE/RSJ International Conference on Intelligent Robots and Systems</i> , Raleigh, NC, July 7-10, 1992
VJL		ROSENBERG, "Virtual Fixtures: Perceptual Overlays Enhance Operator Performance in Telepresence Tasks," <i>Ph.D. Dissertation</i> , Stanford University, June 1994.

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9/28/2006

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